

FIG. 1

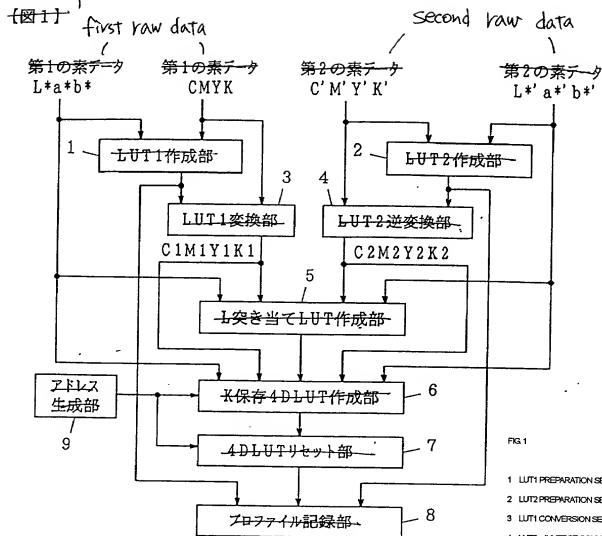


FIG. 1

- 1 LUT1 PREPARATION SECTION
- 2 LUT2 PREPARATION SECTION
- 3 LUT1 CONVERSION SECTION
- 4 LUT2 INVERSE CONVERSION SECTION
- 5 L MATCHING LUT PREPARATION SECTION
- 6 K PRESERVATION 4DLUT PREPARATION SECTION
- 7 4DLUT RESET SECTION
- 8 PROFILE RECORD SECTION
- 9 ADDRESS GENERATION SECTION

FIG. 2

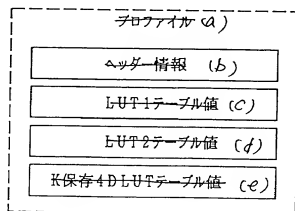


FIG. 2

- (a) PROFILE
- (b) HEADER INFORMATION
- (c) LUT1 TABLE VALUE
- (d) LUT2 TABLE VALUE
- (e) K PRESERVATION 4DLUT TABLE VALUE



FIG. 3

- (a) BLACK (K) SINGLE COLOR REPRODUCTION SETTING [VALID ONLY AT K PRESERVATION TIME]
- (b) PRINT K SINGLE COLOR
- (c) PRINTER K SINGLE COLOR REPRODUCTION
- (d) PRINT K 100%
- (e) PRINTER K 100% REPRODUCTION
- (f) PURE COLOR REPRODUCTION SETTING
- (g) PRINT C PURE COLOR
- (h) PRINTER C PURE COLOR REPRODUCTION
- (i) PRINT M PURE COLOR
- (j) PRINTER M PURE COLOR REPRODUCTION
- (k) PRINT Y PURE COLOR
- (l) PRINTER Y PURE COLOR REPRODUCTION

FIG. 4

- 11 NORMAL COLOR PREDICTION SECTION
- 12 L MATCHING LUT CONVERSION SECTION
- 13 COLOR GAMUT COMPRESSION SECTION
- 14 K CORRECTION SECTION
- 15 INVERSE COLOR PREDICTION SECTION

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FIG. 5

(図5)

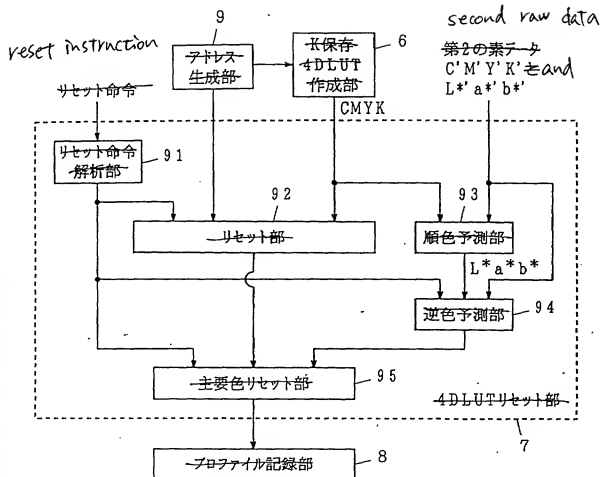


FIG. 5

- 6 K-PRESERVATION 4DLUT PREPARATION SECTION
- 7 4DLUT RESET SECTION
- 8 PROFILE RECORD SECTION
- 9 ADDRESS GENERATION SECTION
- 91 RESET INSTRUCTION INTERPRETATION SECTION
- 92 RESET SECTION
- 93 NORMAL COLOR PREDICTION SECTION
- 94 INVERSE COLOR PREDICTION SECTION
- 95 PRIME COLOR RESET SECTION

00944629 063001

Fig. 6

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first raw data

second raw data

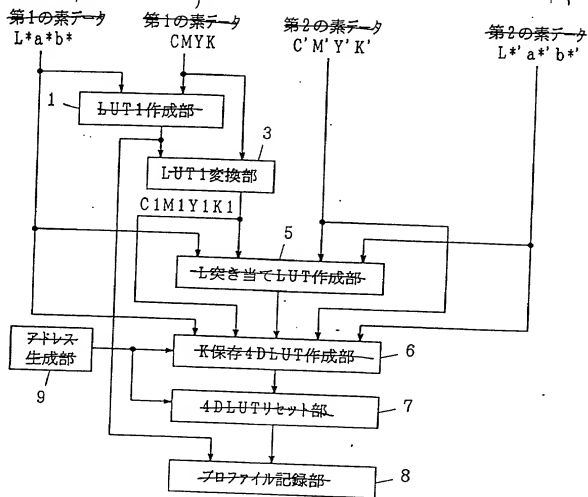


FIG 6

- 1 LUT1 PREPARATION SECTION
- 3 LUT1 CONVERSION SECTION
- 5 L MATCHING LUT PREPARATION SECTION
- 6 K PRESERVATION 4DLUT PREPARATION SECTION
- 7 4DLUT RESET SECTION
- 8 PROFILE RECORD SECTION
- 9 ADDRESS GENERATION SECTION

FIG. 7

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(図7)

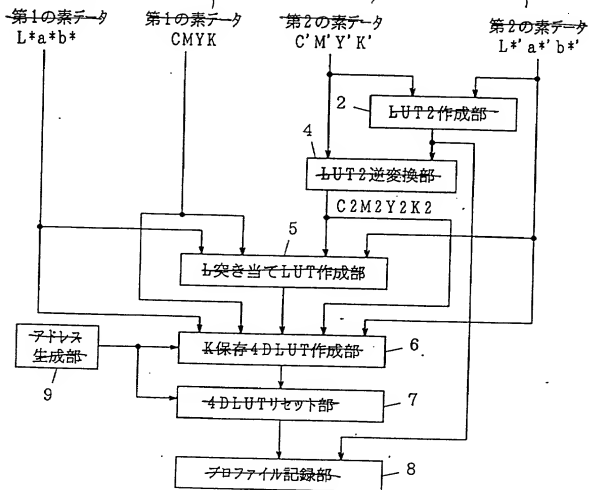


FIG 7

- 2 LUT2 PREPARATION SECTION
- 4 LUT2 INVERSE CONVERSION SECTION
- 5 L MATCHING LUT PREPARATION SECTION
- 6 K PRESERVATION 4DLUT PREPARATION SECTION
- 7 4DLUT RESET SECTION
- 8 PROFILE RECORD SECTION
- 9 ADDRESS GENERATION SECTION

FIG. 8

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図8

first raw data

second raw data

第1の素データ  
 $L^*a^*b^*$

第1の素データ  
CMYK

第2の素データ  
 $C^*M^*Y^*K^*$

第2の素データ  
 $L^*a^*b^*$

第1の相対  
 $L^*a^*b^*$ 変換部

21

第2の相対  
 $L^*a^*b^*$ 変換部

22

LUT1作成部

1

LUT2作成部

2

LUT1変換部

$C1M1Y1K1$

LUT2逆変換部

$C2M2Y2K2$

L突き当てLUT作成部

5

アドレス  
生成部

9

K保存4DLUT作成部

6

4DLUTリセット部

7

プロファイル記録部

8

FIG. 8

- 1 LUT1 PREPARATION SECTION
- 2 LUT2 PREPARATION SECTION
- 3 LUT1 CONVERSION SECTION
- 4 LUT2 INVERSE CONVERSION SECTION
- 5 L MATCHING LUT PREPARATION SECTION
- 6 K PRESERVATION 4DLUT PREPARATION SECTION
- 7 4DLUT RESET SECTION
- 8 PROFILE RECORD SECTION
- 9 ADDRESS GENERATION SECTION
- 21 FIRST RELATIVE  $L^*a^*b^*$  CONVERSION SECTION
- 22 SECOND RELATIVE  $L^*a^*b^*$  CONVERSION SECTION

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Fig. 9

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(図9)

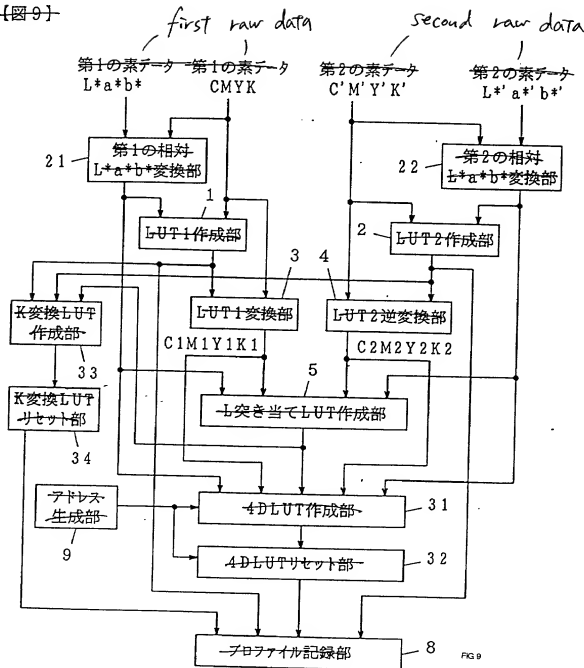


FIG. 9

- 1 LUT1 PREPARATION SECTION
- 2 LUT2 PREPARATION SECTION
- 3 LUT1 CONVERSION SECTION
- 4 LUT2 INVERSE CONVERSION SECTION
- 5 L\*a\*b\* MATCHING LUT PREPARATION SECTION
- 8 PROFILE RECORD SECTION
- 9 ADDRESS GENERATION SECTION
- 21 FIRST RELATIVE L\*a\*b\* CONVERSION SECTION
- 22 SECOND RELATIVE L\*a\*b\* CONVERSION SECTION
- 31 4DLUT PREPARATION SECTION
- 32 4DLUT RESET SECTION
- 33 K CONVERSION LUT PREPARATION SECTION
- 34 K CONVERSION LUT RESET SECTION



FIG. 10

〔図10〕

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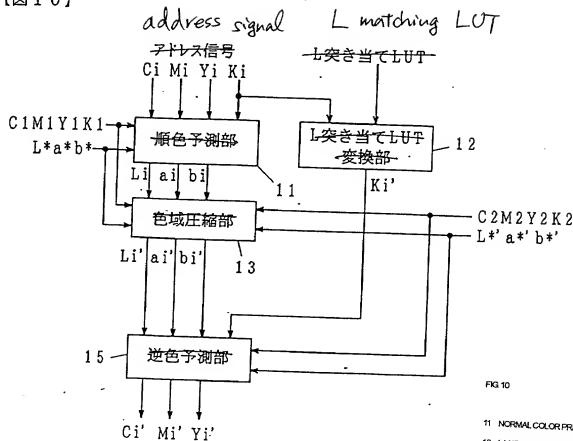


FIG. 10

- 11 NORMAL COLOR PREDICTION SECTION
- 12 L MATCHING LUT CONVERSION SECTION
- 13 COLOR GAMUT COMPRESSION SECTION
- 15 INVERSE COLOR PREDICTION SECTION

〔図11〕

FIG. 11 (A)

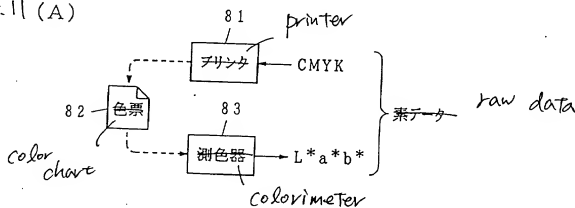


FIG. 11 (B)

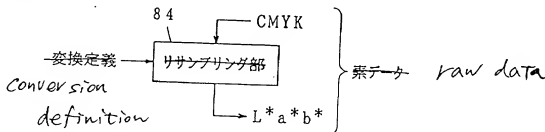


FIG. 12

【図12】

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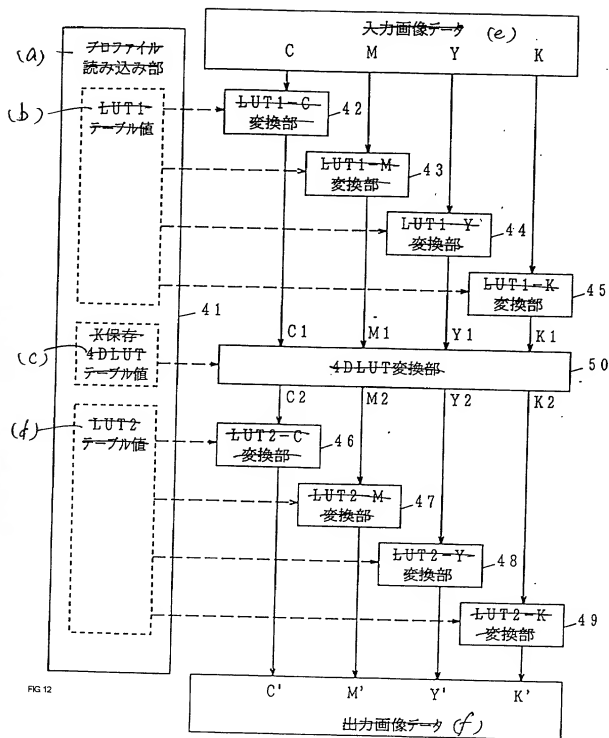


FIG. 12

42 LUT1-C CONVERSION SECTION

43 LUT1-M CONVERSION SECTION

44 LUT1-Y CONVERSION SECTION

45 LUT1-K CONVERSION SECTION

46 LUT2-C CONVERSION SECTION

47 LUT2-M CONVERSION SECTION

48 LUT2-Y CONVERSION SECTION

49 LUT2-K CONVERSION SECTION

50 4DLUT CONVERSION SECTION

(a) PROFILE READ SECTION

(b) LUT1 TABLE VALUE

(c) K-PRESERVATION 4DLUT TABLE VALUE

(d) LUT2 TABLE VALUE

(e) INPUT IMAGE DATA

(f) OUTPUT IMAGE DATA

FIG. 13

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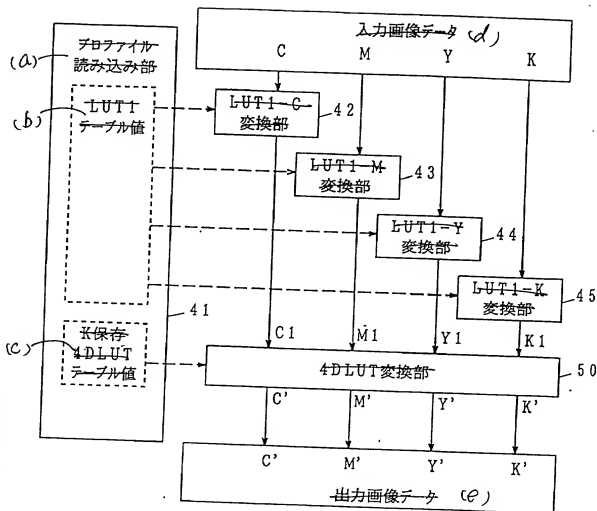


FIG. 13

42 LUT1-C CONVERSION SECTION

43 LUT1-M CONVERSION SECTION

44 LUT1-Y CONVERSION SECTION

45 LUT1-K CONVERSION SECTION

50 4DLUT CONVERSION SECTION

(a) PROFILE READ SECTION

(b) LUT1 TABLE VALUE

(c) K-PRESERVATION 4DLUT TABLE VALUE

(d) INPUT IMAGE DATA

(e) OUTPUT IMAGE DATA

FIG. 14

【図14】

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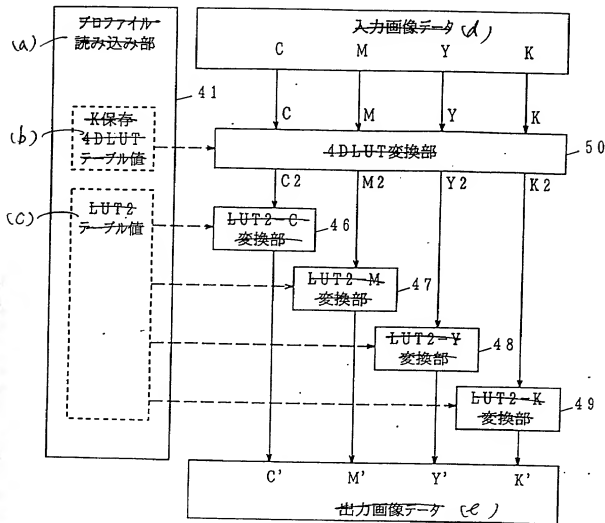


FIG. 14

- 46 LUT2-C CONVERSION SECTION
- 47 LUT2-M CONVERSION SECTION
- 48 LUT2-Y CONVERSION SECTION
- 49 LUT2-K CONVERSION SECTION
- 50 4DLUT CONVERSION SECTION

- (a) PROFILE READ SECTION
- (b) K-PRESERVATION 4DLUT TABLE VALUE
- (c) LUT2 TABLE VALUE
- (d) INPUT IMAGE DATA
- (e) OUTPUT IMAGE DATA

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- (a) PROFILE READ SECTION
- (b) LUT1 TABLE VALUE
- (c) 4DLUT TABLE VALUE
- (d) LUT2 TABLE VALUE
- (e) K CONVERSION LUT TABLE VALUE
- (f) INPUT IMAGE DATA
- (g) OUTPUT IMAGE DATA

FIG. 16

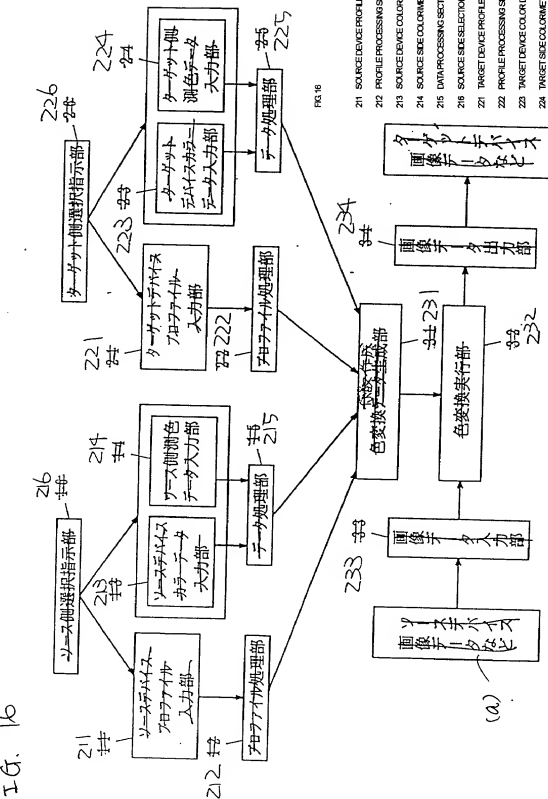


FIG 18

- |    |   |
|----|---|
| 21 | SOURCE DEVICE PROFILE INPUT SECTION               |
| 22 | PROFILE PROCESSING SECTION                        |
| 23 | SOURCE DEVICE COLOR DATA INPUT SECTION            |
| 24 | SOURCE SIZE COLORIMETRIC DATA INPUT SECTION       |
| 25 | DATA PROCESSING SECTION                           |
| 26 | SOURCE SIZE SELECTION INSTRUCTION SECTION         |
| 27 | TARGET DEVICE PROFILE INPUT SECTION               |
| 28 | PROFILE PROCESSING SECTION                        |
| 29 | TARGET DEVICE COLOR DATA INPUT SECTION            |
| 30 | TARGET SIZE COLORIMETRIC DATA INPUT SECTION       |
| 31 | DATA PROCESSING SECTION                           |
| 32 | TARGET SIZE SELECTION INSTRUCTION SECTION         |
| 33 | COLOR CONVERSION COEFFICIENT PRESERVATION SECTION |
| 34 | COLOR CONVERSION INSTRUCTION SECTION              |
| 35 | IMAGE DATA INPUT SECTION                          |
| 36 | IMAGE DATA OUTPUT SECTION                         |

(a) SOURCE DEVICE IMAGE DATA, ETC.,

(a)

FIG. 17A

- (a) SELECT PARAMETER INPUT MEANS
- (b) INPUT FROM CC PROFILE
- (c) INPUT FROM DATA PAIR
- (d) WHEN INPUT FROM DATA PAIR IS SELECTED
- (e) WHEN INPUT FROM CC PROFILE IS SELECTED

FIG. 17(A)

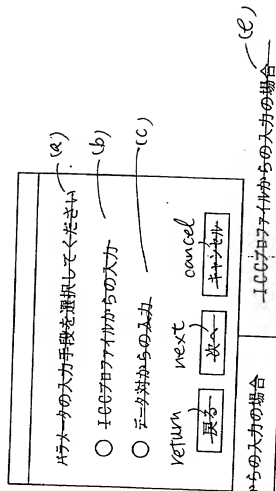


FIG. 17(B)

- (f) SPECIFY DEVICE COLOR DATA FILE OF SOURCE DEVICE
- (g) SPECIFY COLORIMETRIC DATA FILE OF SOURCE DEVICE

FIG. 17(B)

FIG. 17(C)

- (f) SPECIFY PROFILE OF SOURCE DEVICE

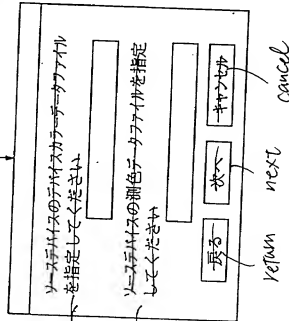


FIG. 17(C)

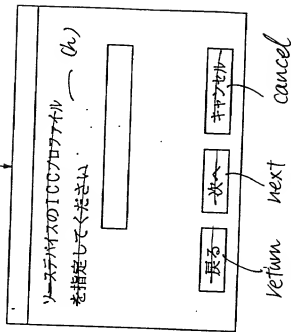


FIG. 18

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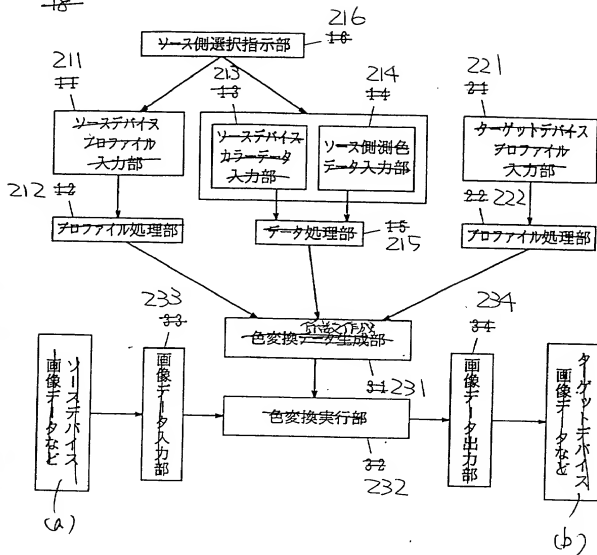


FIG. 18

- 211 SOURCE DEVICE PROFILE INPUT SECTION
- 212 PROFILE PROCESSING SECTION
- 213 SOURCE DEVICE COLOR DATA INPUT SECTION
- 214 SOURCE SIDE COLORIMETRIC DATA INPUT SECTION
- 215 DATA PROCESSING SECTION
- 216 SOURCE SIDE SELECTION INSTRUCTION SECTION
- 221 TARGET DEVICE PROFILE INPUT SECTION
- 222 PROFILE PROCESSING SECTION
- 223 TARGET SIDE SELECTION INSTRUCTION SECTION
- 231 COLOR CONVERSION COEFFICIENT PREPARATION SECTION
- 232 COLOR CONVERSION EXECUTION SECTION
- 233 IMAGE DATA INPUT SECTION
- 234 IMAGE DATA OUTPUT SECTION
- (a) SOURCE DEVICE IMAGE DATA, ETC.
- (b) TARGET DEVICE IMAGE DATA, ETC.



FIG. 19

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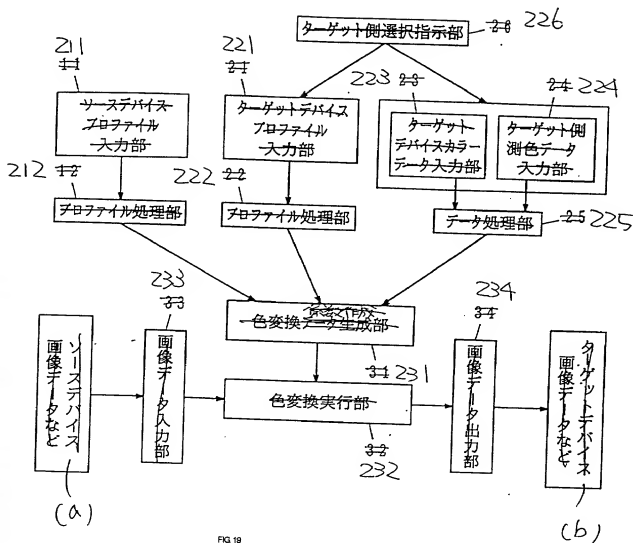


FIG. 19

- 211 SOURCE DEVICE PROFILE INPUT SECTION
- 212 PROFILE PROCESSING SECTION
- 221 TARGET DEVICE PROFILE INPUT SECTION
- 222 PROFILE PROCESSING SECTION
- 223 TARGET DEVICE COLOR DATA INPUT SECTION
- 224 TARGET SIDE COLORIMETRIC DATA INPUT SECTION
- 225 DATA PROCESSING SECTION
- 226 TARGET SIDE SELECTION INSTRUCTION SECTION
- 231 COLOR CONVERSION COEFFICIENT PREPARATION SECTION
- 232 COLOR CONVERSION EXECUTION SECTION
- 233 IMAGE DATA INPUT SECTION
- 234 IMAGE DATA OUTPUT SECTION
- (a) SOURCE DEVICE IMAGE DATA, ETC.,
- (b) TARGET DEVICE IMAGE DATA, ETC.,

FIG. 20

(図 20)

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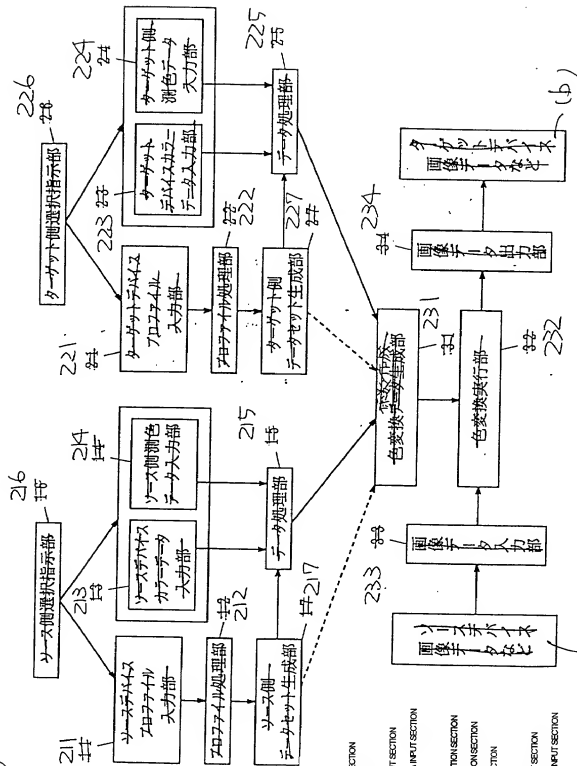


FIG. 20

211 SOURCE DEVICE PROFILE INPUT SECTION

212 PROFILE PROCESSING SECTION

213 SOURCE DEVICE COLOR DATA INPUT SECTION

214 SOURCE DEVICE COLORIMETRIC DATA INPUT SECTION

215 DATA PROCESSING SECTION

216 SOURCE DEVICE PROFILE INSTRUCTION SECTION

217 SOURCE DEVICE DATA SET PREPARATION SECTION

221 TARGET DEVICE PROFILE INPUT SECTION

222 PROFILE PROCESSING SECTION

223 TARGET DEVICE COLOR DATA INPUT SECTION

224 TARGET DEVICE COLORIMETRIC DATA INPUT SECTION

225 DATA PROCESSING SECTION

226 TARGET DEVICE PROFILE INSTRUCTION SECTION

227 TARGET DEVICE DATA SET PREPARATION SECTION

231 COLOR CONVERSION COEFFICIENT PREPARATION SECTION

232 COLOR CONVERSION EXECUTION SECTION

233 IMAGE DATA INPUT SECTION

234 IMAGE DATA OUTPUT SECTION

(a) SOURCE DEVICE IMAGE DATA, ETC.

(b) TARGET DEVICE IMAGE DATA, ETC.



